

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

UNSTARRED QUESTION NO:2192

ANSWERED ON:14.03.2008

WATER SHORTAGE FOR HYDRO POWER GENERATION

Pandey Dr. Laxminarayan;Tripathi Shri Chandramani

Will the Minister of POWER be pleased to state:

- (a) whether substantial decrease in the water level has been registered in major dams viz. Bhakra, Pong, Thein, Rihand, Matatila, Gandhisagar, Bansagar, Indira Sagar and Baragi etc. generating hydroelectricity in Northern India;
- (b) if so, whether electricity generation capacity of these dams has been adversely affected due to decrease in water level;
- (c) the details of electricity generation capacity of these dams and decrease in electricity generation registered in megawatt during the last six months; and
- (d) the steps taken by the Government in this regard?

Answer

MINISTER OF THE STATE IN THE MINISTRY OF POWER (SHRI SUSHILKUMAR SHINDE)

(a) : Yes, Sir. The water levels in the current year in the Bhakra, Pong, Thein, Rihand, Gandhisagar, Bansagar, Indirasagar and Bargi are lower than the levels on the same day of last year except in Matatila. The details of water level in respect of these dams are as under:-

Sl. No.	Name of Dam	Reservoir level (ft.) Date Level last year (ft.)	Reservoir level (ft.) Date Level of level w.r.t. last year (ft.)	Deviation (-)/(+)
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1.	Bhakra	6.3.08 1553.53	6.3.07 1596.10	(-)42.57
2.	Pong	6.3.08 1297.98	6.3.07 1344.69	(-)46.71
3.	Thein Dam (Ranjit Sagar)	6.3.08 1632.02	6.3.07 1648.98	16.96
4.	Rihand	6.3.08 842.00	6.3.07 843.70	(-)1.70
5.	Matatila	5.2.08 997.11	5.2.07 994.19	(+)2.92
6.	Gandhi Sagar	6.3.08 1273.98	6.3.07 1291.21	(-)17.23
7.	Bansagar	28.2.08 1079.13	28.2.07 1084.78	(-)5.65
8.	Indira Sagar	6.3.08 815.94	6.3.07 817.78	(-)1.84
9.	Bargi	23.2.08 1353.35	23.2.07 1356.96	(-)3.61

(b) : No, Sir. The electricity generated in the current year upto Feb.08 is more than the generation in same period of the last year in case of Pong, Gandhisagar & Indirasagar whereas, the electricity generation in case of Bhakra, Thein (Ranjit Sagar). Rihand, Matatila, Bansagar & Bargi is less than the energy generation in the same period last year. The details are as under:

Sl. No.	Name of Dam	Total Generation (in MU) 2007-08 Upto Feb., 08	Deviation (+)/(-) of Gen. 2006-07 w.r.t. last year
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1.	Bhakra	4778.98	5093.00	(-)314.02
2.	Pong	1702.58	1366.00	(+)336.58
3.	Thein(Ranjit Sagar)	1453.19	1589.28	(-)136.09
4.	Rihand	542.20	890.54	(-)348.34
5.	Matatila	65.91	124.63	(-)58.72
6.	Gandhisagar	478.19	397.15	(+)81.04
7.	Bansagar	1185.86	1263.46	(-)77.60
8.	Indira Sagar	2637.72	2514.02	(+)123.70
9.	Bargi	414.09	496.77	(-)82.68
		15257.72	15733.85	

The annual generation from reservoir based hydro power stations depends on the inflow during the year due to rainfall and snowmelt carry over storage and the quantum of water released for irrigation through the machines. The reservoir level at the end of the year depends on the inflow and quantum of release for irrigation / power generation. The generation from a reservoir based power station will be higher if the quantum of water released through machine for irrigation is more and this will result in decrease in the reservoir level.

(c) : The details of electricity generation capacity (installed capacity) and available capacity of these dams are as under:

Sl. No.	Name of Dam	Installed Capacity (MW)	Capacity currently available (MW)
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1.	Bhakra	1325	1325
2.	Pong	396	396
3.	Thein (Ranjit Sagar)	600	600
4.	Rihand	300	250
5.	Matatila	30.60	30.60
6.	Gandhisagar	115	115
7.	Bansagar	425	425
8.	Indira Sagar	1000	1000
9.	Bargi	90	90

In case of Rihand, one unit is under Major shutdown and hence not available. No decrease in generation capacity from these dams has been registered in the last six months.

(d) : Question does not arise.